Pivot Table for Maximum and Minimum Sale Values

Aim:

Create a Pivot table to find the maximum and minimum sale values of items.

Algorithm:

1. Import pandas library
2. Load the sales data into a DataFrame
3. Create a pivot table using pd.pivot_table()
4. Set the 'Item' as the index
5. Use 'Sale_amt' as the values
6. Apply 'max' and 'min' aggregate functions
7. Display the resulting pivot table

Code:

```python
import pandas as pd

data = {
    'Item': ['Television', 'Home Theater', 'Cell Phone', 'Television', 'Home Theater']
* 2,
    'Sale_amt': [113810, 25000, 6075, 67088, 30000, 89850, 107820, 38336, 30000,
107820]
}
df = pd.DataFrame(data)

pivot_table = pd.pivot_table(df, values='Sale_amt', index='Item', aggfunc=['max',
'min'])
print(pivot_table)
```

Output:

```
          max Sale_amt min Sale_amt
Item
Cell Phone       6075       6075
Home Theater    30000      25000
Television     113810      38336
```

Result

The pivot table shows the maximum and minimum sale amounts for each item in the dataset.